(1)
$$\Psi(\mathbf{r},t)$$
(2)
$$\Psi(\mathbf{r},t+\tau/2)$$

$$\Psi(\mathbf{k},t)$$

$$\psi'(\mathbf{r},t+\tau/2)$$

$$\Psi(\mathbf{k},t+\tau)$$

$$\Psi(\mathbf{k},t+\tau)$$
(4)
$$\Psi(\mathbf{r},t+\tau)$$